



AGÊNCIA NACIONAL DE AVIAÇÃO CIVIL – BRAZIL

BRAZILIAN AIRWORTHINESS DIRECTIVE

AD No.: 2008-08-01

Effective Date: 21 Oct. 2008

The following Brazilian Airworthiness Directive (AD), issued by the Agência Nacional de Aviação Civil (ANAC) in accordance with provisions of Chapter IV, Title III of Código Brasileiro de Aeronáutica - Law No. 7,565 dated 19 December 1986 - and Regulamento Brasileiro de Homologação Aeronáutica (RBHA) 39, applies to all aircraft registered in the Registro Aeronáutico Brasileiro. No person may operate an aircraft to which this AD applies, unless it has previously complied with the requirements established herein.

AD No. 2008-08-01 - EMBRAER - Amendment 39-1240.

APPLICABILITY:

This Airworthiness Directive is applicable to Embraer EMB-120, EMB-120ER, EMB-120FC, EMB-120QC and EMB-120RT aircraft models, as identified in the Embraer Service Bulletin (SB) No. 120-49-0023 Rev. 01, dated 30 June 2008, or in its further revisions approved by the ANAC.

CANCELLATION / REVISION:

Not applicable.

REASON:

It has been found the occurrence of corrosion on the Auxiliary Power Unit (APU) mounting rods that could cause the APU rod to break, affecting the APU support structure integrity.

Since this condition affects flight safety, a corrective action is required. Thus, sufficient reason exists to request compliance with this AD in the indicated time limit.

REQUIRED ACTION:

Inspection, rework and, if necessary, replacement of the APU mounting rods.

COMPLIANCE:

Required as indicated below, unless already accomplished.

Within the next 1500 flight hours or 6 months after the effective date of this AD, whichever occurs first, perform a external Detailed Inspection (DET) of the APU auxiliary and center mounting rods, as well on the rod ends, in order to prevent a hazardous level of corrosion from developing in the APU auxiliary and center mounting rods or rods end.

- (a) If no corrosion is found on the mounting rods and rod ends, no further actions are necessary.
- (b) If any sign of corrosion is detected on the mounting rods, the following procedures must be adopted:
 - (1) If only light corrosion (characterized by discoloration or pitting) is found, remove the corrosion and apply an anticorrosive treatment to the affected APU mounting rods according the detailed instructions and procedures described in the Embraer SB No. 120-49-0023 original issue, or in its further revisions approved by the ANAC; or
 - (2) If moderate corrosion (characterized by surface blistering or evidence of scaling and flaking) or heavy corrosion (characterized by severe blistering exfoliation and scaling and flaking) is found, replace the affected APU mounting rods by new ones bearing the same part number (P/N) or new ones bearing a new P/N approved by the ANAC.
- (c) If any corrosion is found on the rod ends, remove the corrosion and apply an anticorrosive treatment to the rod ends according the detailed instructions and procedures described in the Embraer Service Bulletin No. 120-49-0023, original issue, or its further revisions approved by the ANAC.

NOTE 1: For the purpose of this AD, a Detailed Inspection (DET) is: “An intensive examination of a specific item, installation or assembly to detect damage, failure or irregularity. Available lighting is normally supplemented with a direct source of good lighting at an intensity deemed appropriate. Inspection aids such as mirrors, magnifying lenses, etc., may be necessary. Surface cleaning and elaborate access procedures may be required.”

NOTE 2: The above procedures are considered an interim solution until a final action is identified, at which time the ANAC may consider the issuance of a further rulemaking.

The detailed instructions and procedures to accomplish this AD are described in the Embraer Service Bulletin No. 120-49-0023 original issue, or in its further revisions approved by the ANAC.

Record compliance with this AD in the applicable maintenance log book.

CONTACT:

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NOTE: Original in Portuguese language signed and available in the files of the Aeronautical Products Certification Branch (GGCP) of the National Civil Aviation Agency (ANAC).